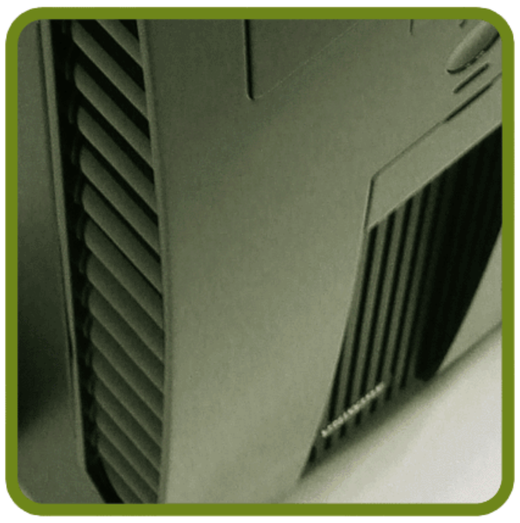
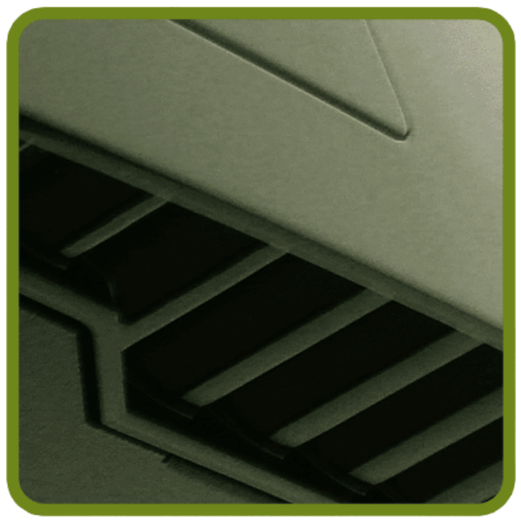
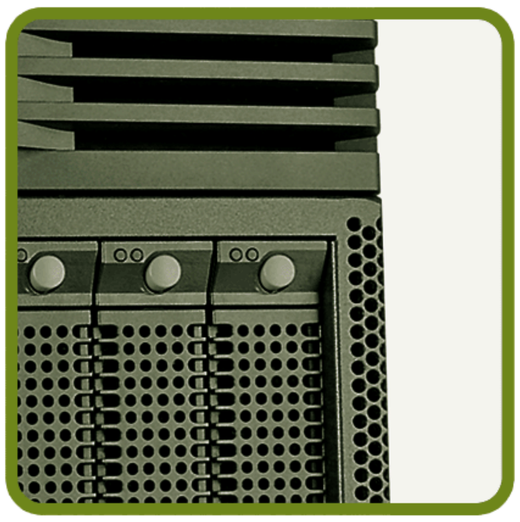
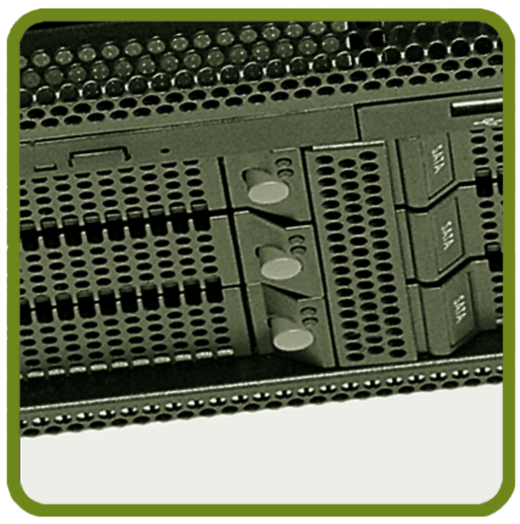





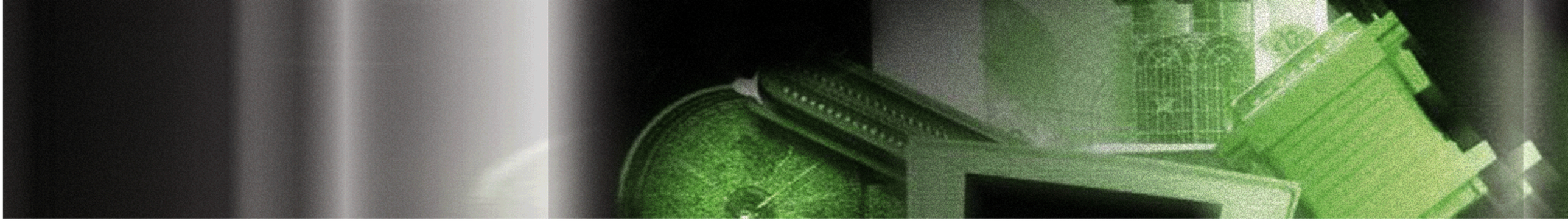


UniServer

The world's most powerful & scalable server solutions

More Powerful, More Energy-Efficient

UNIWIDE Technologies



UniServer

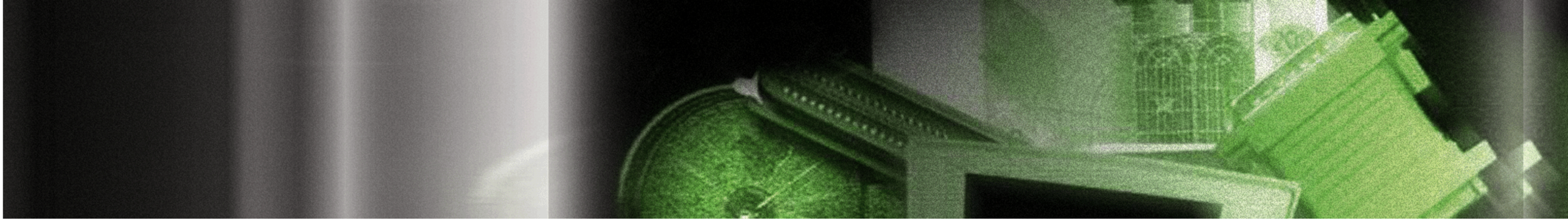
UniServers are the most advanced server solutions to date, empowering the users to achieve highest standard of reliability, performance, manageability, and performance/price ratio.
UniServers were designed to solve the challenges often faced by developers and system integrators alike, server that meets today's demand as well as easily scale to meet future demands.
Offered in 1U, 2U and 3U packages, UniServers are most capable of meeting your expectations for general purpose server to high-performance computing environment

UniServer is a complete line of AMD Validated Server platforms that supports the latest AMD Opteron™ processor for socket F(1207). With an addition of this new product family, UniServer continues to push the envelope in performance, reliability, value and scalability in the AMD Opteron™ server market space.

UniServer supports either dual-core or quad-core AMD Opteron™ processor for socket F (1207). With its innovative direct access to the memory space and power now technology, AMD Opteron™ processor for socket F (1207) offers the highest performance per watt. In addition to the industry's fastest performing processor, UniServer incorporates up to 128GB of DDR2 system memory, doubling the conventional server platforms available in the market.

Processing and doubled memory space is coupled with long list of built-in features such as PCI-E and PCI-X add-on slots, RAID 0, 1, 1E for SATA II or SAS (both delivering 3.0Gbps), hot swap power supplies, fans, hard disk drives, and built-in service processor for IPMI 2.0 based in-band & out-of-band server management.

Lastly, UniServer continues to offer the very best in the market as the most innovative, easy to integrate and deploy, and finally, easy to maintain. From the design stage, UniServer was destined to be superior in its fit & finish and workmanship. All of the major components, motherboard, power supply, I/O boards, chassis design, cooling fan placements… were designed to fit as an integral part of a highly efficient server system. As a result of this design effort, integration and deployment time of a UniServer is substantially less. Sustaining the same integration quality on every server unit is another benefit of this design effort.
By unifying the base motherboard across its entire product line keeps the maintenance and TCO lower than any competing platform in the market.



Standard Features:
- Support 2way / 4way AMD Opteron™ processor for socket F (1207)
- 8 DDR2 DIMM sockets per CPU, max. up to 128GB of memory
- Support up to 3 PCI-Express and 3 PCI-X expansion slots.
- Support up to 6 hot swap SATA II or SAS drive support
- On-board RAID 0, 1, 1E for SATA II or SAS drives
- Hot swappable & redundant power supplies
- Dedicated BMC service processor for Server Dome.
- Hot swap cooling fans
- Cable-less and tool-less design
- EIA, 19" rack mount standard
- CPU heat sinks and air plenum
- Slide rails

Optional Features:
- FDD, CD/DVD Combo or DVD RW kit
- Slim FDD kit
- Additional hot swap, redundant PSU
- KVM over IP module

Performance
UniServer achieves highest processing power with AMD Opteron™ processor family for socket F, all dual-core, and eight DDR2 DIMM sockets per processor. UniServer is the industry leader in offering the highest memory capacity in 2 way and 4 way processor server configurations.

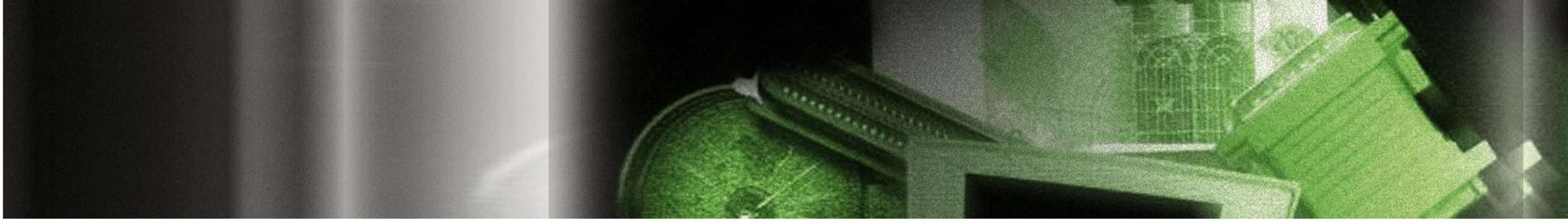
Scalability
Eight DDR2 DIMM sockets per CPU, gives UniServer users an easy upgrade path to higher memory capacity as performance demands increase. In addition, 4 way configurations support 2 way configuration thus allowing the user to upgrade to 4 way configuration at a later date. Up to 6 SATA II or SAS drives supports up to 3.0TB of raw storage capacity. 3 x PCI-E and 3 x PCI-X slots within a single 3U, 4 way, server is one of the highest density configuration in the market.

Availability
UniServer is equipped with many features to maximize its up-time. Hot swap HDD, PSU, and fans do not require system shutdown for replacement. Built-in RAID 0, 1, 1E on SATA II or SAS drives ensure continuous disk I/O. Dual Gigabit NIC ports on PCI-E bus can be aggregated for NIC fail-over and twice the throughput.

Manageability
Server Dome, Uniwide's own IPMI 2.0 based server managed suite can manage single or multiple UniServers at remote sites.
Dedicated BMC service processor built-into every UniServer allows in-band and out-of-band server control, including hard and soft server reset, power up and shutdown. Server Dome is a full-featured management suite, that is Java based, thus, it is host independent. Furthermore, it's monitoring capabilities include temperature, fan, voltage and system health monitoring, OS level alerts and system monitoring, disk I/O, network I/O, memory usage, event logging, resource utilization… the list goes on and on.

Reliability
With thousands of first generation UniServers deployed through-out the global market, UniServer lives up to its reputation as one of the most reliable AMD Validated Server platform in the market.
The result of innovative design, where each component was carefully designed to fit together, is a first class fit and finish that operates extremely cool and quiet.

Value
UniServer delivers high value by cutting down time on testing, validation, integration, deployment, management and maintenance. No other server platform offers quick and easy of ownership and control. Furthermore, eight DDR2 DIMM sockets per CPU allow users to use lower capacity memory modules while achieving same capacity, saving substantially on cost of memory.



UniServer 1522

Model SKUs

UniServer 1522ES
- 1U 2-way SAS Server powered by AMD Opteron™ processor for socket F (1207), NVIDIA 2200 + NVIDIA 2050 + AMD 8132 chipset 16 DDR-2 DIMMs, 1 x 64/133 PCI-X, 1 x PCI-E(x16), 2 x Gigabit & 1 x 10/100, VGA 16MB, 2 x hot swap SAS HDDs

UniServer 1522VA
- 1U 2-way SATA Server powered by AMD Opteron™ processor for socket F (1207), NVIDIA 2200 chipset, 16 DDR-2 DIMMs, 1 x PCI-E(x16), 2 x Gigabit & 1 x 10/100, VGA 16MB, 2 x hot swap SATA II HDDs

Processors
- Supports 2way AMD Opteron™ Processors for socket F (1207)
- Integrated 128-bit registered DDR2 memory controller

Chipset
- AMD 8132 PCI-X Tunnel chipset
- NVIDIA nForce4 Professional 2200
- NVIDIA nForce4 Professional 2050
- ADM 1026 hardware monitoring IC

Memory
- 128-bit dual channel memory bus
- Supports 16 DIMM slots (8 DIMM for per CPU) / max. 64GB memory capacity
- Registered ECC/REG DDR2 400/533/667 SDRAM

Disk Controller
- Integrated single-channel ATA 133/100/66: nForce4 Professional 2200
- Integrated two SATA II 3.0Gbs ports with NVRAID: nForce4 Professional 2200
- On-board LSI 1068 PCI-X SAS controller

- supports integrated mirroring/stripping and ZCR function

Drive Bays
- Supports slim CD-ROM(or DVD-Combo) and slim FDD
- Supports two hot-swap SATA II HDDs or SAS HDDs (optional)

Graphics
- XGI Volari Z9 VGA chip, 16MB memory size

Network Interface
- Dual Broadcom 5721 PCI-Express X1 Gigabit controllers - support PXE function

Rear Input/Output
- One VGA port, One serial port, One PS/2 connectors, Two RJ45 Gigabit ports, Two USB2.0 connectors, ID LED, Two Dip switches, One 10/100 port dedicated for KVM-over-IP, One IEEE 1394a(FireWire) port, One SFF8470 external SAS connector(SAS model only)

Front Panel
- LED: Power, LAN1, LAN2, System Fail, System ID Switch: Reset, Power, System ID Two USB 2.0 connectors

PCI Expansion Slots
- One half-length PCI-Express x16, One half-length PCI-X 64-bit 133 MHz

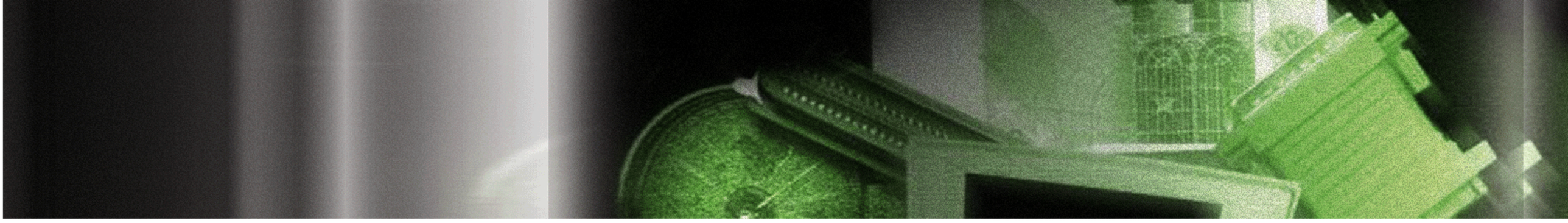
Power Supply
- 100~240VAC, 9.0~4.5A 50/60Hz, auto-sensing, 500W single with PFC

Cooling
- Two blower system cooling fans - Supports variable speed control

Dimension (HxWxD)
- 1U Rackmount, 43.5 x 483.0 x 698 mm((1.71 x 19 x 27.48 inch)

Environment
- Operating: 10 to 35 , Storage: 70 max

Remote Server Mgmt 'ServerDome'
- Integrated server management (IPMI 2.0 on-board)
- ServerDome (Optional)
- In-band and Out-of-band remote management
- Power On/Off and reset function
- Platform Monitoring: Fan fail, Over-temperature and Voltage
- E-mail failure notification
- Automatic System Discovery
- Cabinet Layout Management
- Logical Group Management
- Basis on User Account and Privilege Level
- KVM-over-IP (Optional)



UniServer 2524

Model SKUs

UniServer 2524ES
- 2U 2way SAS Sever powered by AMD Opteron™ processor for socket F (1207), NVIDIA 2200 + NVIDIA 2050 + AMD 8132 chipset 16 DDR-2 DIMMs, 3 x 64/133 PCI-X, 1 x PCI-E(x4), 2 x PCI-E(x16), 2 x Gigabit & 1 x 10/100, VGA 16MB, 4 x hot swap SAS HDDs

UniServer 2524VA
- 2U 2way SATA Sever powered by AMD Opteron™ processor for socket F (1207), NVIDIA 2200 chipset, 16 DDR-2 DIMMs, 1 x PCI-E(x16), 2 x Gigabit & 1 x 10/100, VGA 16MB, 4 x hot swap SATA II HDDs

Processors
- Supports 2way AMD Opteron™ Processor for socket F (1207)
- Integrated 128-bit registered DDR2 memory controller

Chipset
- AMD 8132 PCI-X Tunnel chipset
- NVIDIA nForce4 Professional 2200
- NVIDIA nForce4 Professional 2050
- ADM 1026 hardware monitoring IC

Memory
- 128-bit dual channel memory bus
- Supports 16 DIMM slots (8 DIMM for per CPU) / max. 64 GB Memeory capacity
- Registered ECC DDR2 400/533/667 SDRAM

Disk Controller
- Integrated single-channel ATA 133/100/66: nForce4 Professional 2200
- Integrated four SATA II 3.0Gbs ports with NVRAID: nForce4 Professional 2200
- On-board LSI 1068 PCI-X SAS controller

- supports integrated mirroring/stripping and ZCR function

Drive Bays
- Supports slim CD-ROM(or DVD-Combo) and slim FDD
- Supports four hot-swap SATA II HDDs or SAS HDDs (optional)

Graphics
- XGI Volari Z9 VGA chip, 16MB memory size

Network Interface
- Dual Broadcom 5721 PCI-Express X1 Gigabit controllers - support PXE function

Rear Input/Output
- One VGA port, One serial port, One PS/2 connectors, Two RJ45 Gigabit ports, Two USB2.0 connectors, ID LED, Two Dip switches, One 10/100 port dedicated for KVM-over-IP, One IEEE 1394a(FireWire) port, One SFF8470 external SAS connector(SAS model only)

Front Panel
- LED: Power, LAN1, LAN2, System Fail, System ID Switch: Reset, Power, System ID Two USB 2.0 connectors

PCI Expansion Slots
- Two PCI-Express x16(Low-Profile type) / One PCI-Express x4(Low-Profile type)
- Three PCI-X 64-bit 133/100/66 MHz(Low Profile type)

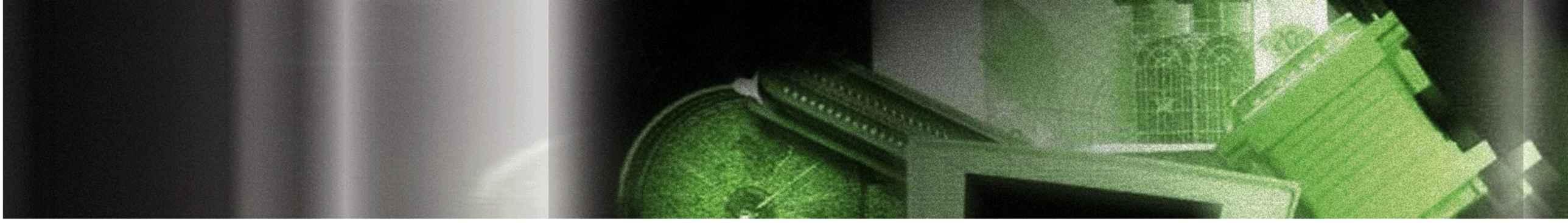
Power Supply
- 100~240VAC, 9.0~4.5A 50/60Hz, auto-sensing, 500W(1+1) hot-swap redundant P/S with PFC

Cooling
- Two blower system cooling fans - Supports variable speed control

Dimension (HxWxD)
- 2U Rackmount, 88.5 x 483.0 x 698 mm(3.5 x 19 x 27.48 inch)

Environment
- Operating: 10 to 35 , Storage: 70 max

Remote Server Mgmt 'ServerDome'
- Integrated server management (IPMI 2.0 on-board)
- ServerDome (Optional)
- In-band and Out-of-band remote management
- Power On/Off and reset function
- Platform Monitoring: Fan fail, Over-temperature and Voltage
- E-mail failure notification
- Automatic System Discovery
- Cabinet Layout Management
- Logical Group Management
- Basis on User Account and Privilege Level
- KVM-over-IP (Optional)



UniServer 2544

Model SKUs

UniServer 2544ES
- 2U 4way SAS Sever powered by AMD Opteron™ processor for socket F (1207), NVIDIA 2200 + NVIDIA 2050 + AMD 8132 chipset 32 DDR-2 DIMMs, 3 x 64/133 PCI-X, 1 x PCI-E(x4), 2 x PCI-E(x16), 2 x Gigabit & 1 x 10/100, VGA 16MB, 4 x hot swap SAS HDDs

UniServer 2544VA
- 2U 4way SATA Sever powered by AMD Opteron™ processor for socket F (1207), NVIDIA 2200 chipset, 32 DDR-2 DIMMs, 1 x PCI-E(x16), 2 x Gigabit & 1 x 10/100, VGA 16MB, 4 x hot swap SATA II HDDs

Processors
- Supports 4way AMD Opteron™ Processor for socket F (1207)
- Integrated 128-bit registered DDR2 memory controller

Chipset
- AMD 8132 PCI-X Tunnel chipset
- NVIDIA nForce4 Professional 2200
- NVIDIA nForce4 Professional 2050
- ADM 1026 hardware monitoring IC

Memory
- 128-bit dual channel memory bus
- Supports 32 DIMM slots (8 DIMM for per CPU) / max.128GB memory capacity
- Registered ECC DDR2 400/533/667 SDRAM

Disk Controller
- Integrated single-channel ATA 133/100/66: nForce4 Professional 2200
- Integrated four SATA II 3.0Gbs ports with NVRAID: nForce4 Professional 2200
- On-board LSI 1068 PCI-X SAS controller

- supports integrated mirroring/stripping and ZCR function

Drive Bays
- Supports slim CD-ROM(or DVD-Combo) and slim FDD
- Supports four hot-swap SATA II HDDs or SAS HDDs (optional)

Graphics
- XGI Volari Z9 VGA chip, 16MB memory size

Network Interface
- Dual Broadcom 5721 PCI-Express X1 Gigabit controllers - support PXE function

Rear Input/Output
- One VGA port, One serial port, One PS/2 connectors, Two RJ45 Gigabit ports, Two USB2.0 connectors, ID LED, Two Dip switches, One 10/100 port dedicated for KVM-over-IP, One IEEE 1394a(FireWire) port, One SFF8470 external SAS connector(SAS model only)

Front Panel
- LED: Power, LAN1, LAN2, System Fail, System ID Switch: Reset, Power, System ID Two USB 2.0 connectors

PCI Expansion Slots
- Two PCI-Express x16(Low-Profile type) / One PCI-Express x4(Low-Profile type)
- Three PCI-X 64-bit 133/100/66 MHz(Low-Profile type)

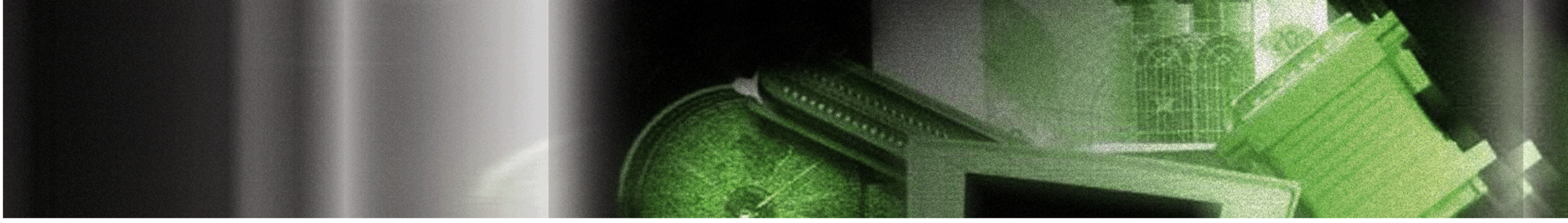
Power Supply
- 100~240VAC, 12.4~6.2A 50/60Hz, auto-sensing, 1000W dual P/S with PFC

Cooling
- Two blower system cooling fans - supports variable speed control

Dimension (HxWxD)
- 2U Rackmount, 88.5 x 483.0 x 698 mm(3.5 x 19 x 27.48 inch)

Environment
- Operating: 10 to 35 , Storage: 70 max

Remote Server Mgmt 'ServerDome'
- Integrated server management (IPMI 2.0 on-board)
- ServerDome (Optional)
- In-band and Out-of-band remote management
- Power On/Off and reset function
- Platform Monitoring: Fan fail, Over-temperature and Voltage
- E-mail failure notification
- Automatic System Discovery
- Cabinet Layout Management
- Logical Group Management
- Basis on User Account and Privilege Level
- KVM-over-IP (Optional)



UniServer 3526

Model SKUs

UniServer 3526ES

- 3U 2way SAS Server powered by AMD Opteron™ processor for socket F (1207)
NVIDIA 2200 + NVIDIA 2050 + AMD 8132 chipset
16 DDR-2 DIMMs, 3 x 64/133 PCI-X, 1 x PCI-E(x4),
2 x PCI-E(x16), 2 x Gigabit & 1 x 10/100,
VGA 16MB, 6 x hot swap SAS HDDs

Processors
- Supports 2way AMD Opteron™ processors for Socket F (1207)
- Integrated 128-bit registered DDR2 memory controller

Chipset
- AMD 8132 PCI-X Tunnel chipset
- NVIDIA nForce4 Professional 2200
- NVIDIA nForce4 Professional 2050
- ADM 1026 hardware monitoring IC

Memory
- 128-bit dual channel memory bus
- Supports 16 DIMM slots (8 DIMM per CPU)/ max. 64GB memory capacity
- Registered ECC DDR2 400/533/667 SDRAM

Disk Controller
- Integrated single-channel ATA 133/100/66: nForce4 Professional 2200
- On-board LSI 1068 PCI-X SAS controller
- supports integrated mirroring/stripping and ZCR function

Drive Bays
- Supports slim CD-ROM(or DVD-Combo) and slim FDD
- Supports six hot-swap SAS HDDs

Graphics
- XGI Volari Z9 VGA chip, 16MB memory size

Network Interface
- Dual Broadcom 5721 PCI-Express X1 Gigabit controllers
- support PXE function

Rear Input/Output
- One VGA port, One serial port, One PS/2 connectors, Two RJ45 Gigabit ports, Two USB2.0 connectors, ID LED, Two Dip switches, One 10/100 port dedicated for KVM-over-IP, One IEEE 1394a(FireWire) port, One SFF8470 external SAS connector

Front Panel
- LED: Power, LAN1, LAN2, System Fail, System ID Switch: Reset, Power, System ID Two USB 2.0 connectors

PCI Expansion Slots
- Two full length PCI-Express x16 slots, One half length PCI-Express x4 slot
- Two half length, One full length PCI-X 64-bit 133/100/66 MHz slots

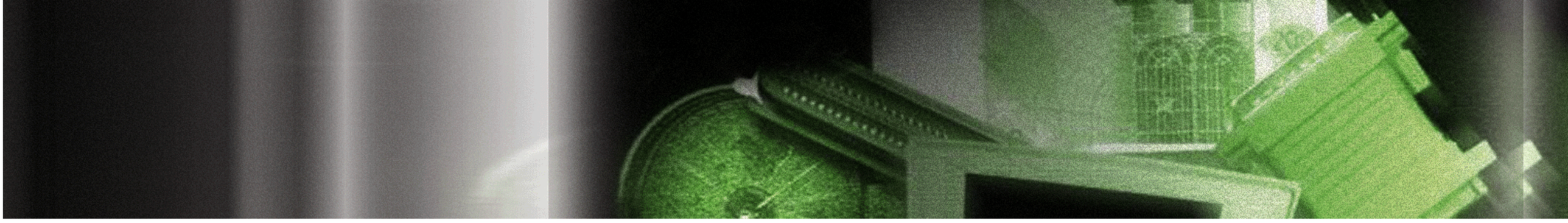
Power Supply
- 100~240VAC, 14.0~7.0A 50/60Hz, auto-sensing, 500W(N+1) hot-swap redundant P/S with PFC

Cooling
- Hot-plug two center Fans & two rear Fans - Supports variable speed control

Dimension (HxWxD)
- 3U Rackmount, 131 x 430.0 x 698 mm (5.2 x 16.9 x 27.5 inch)

Environment
- Operating: 10 to 35 , Storage: 70 max

Remote Server Mgmt 'ServerDome'
- Integrated server management (IPMI 2.0 on-board)
- ServerDome (Optional)
- In-band and Out-of-band remote management
- Power On/Off and reset function
- Platform Monitoring: Fan fail, Over-temperature and Voltage
- E-mail failure notification
- Automatic System Discovery
- Cabinet Layout Management
- Logical Group Management
- Basis on User Account and Privilege Level
- KVM-over-IP (Optional)



UniServer 3546

Model SKUs
UniServer 3546ES
- 3U 4way SAS Server powered by AMD Opteron™ processor for socket F (1207)
NVIDIA 2200 + NVIDIA 2050 + AMD 8132 chipset
32 DDR-2 DIMMs, 3 x 64/133 PCI-X, 1 x PCI-E(x4), 2 x PCI-E(x16), 2 x Gigabit & 1 x 10/100, VGA 16MB, 6 x hot swap SAS HDDs

Processors
- Supports 4way AMD Opteron™ processors for Socket F (1207)
- Integrated 128-bit registered DDR2 memory controller

Chipset
- AMD 8132 PCI-X Tunnel chipset
- NVIDIA nForce4 Professional 2200
- NVIDIA nForce4 Professional 2050
- ADM 1026 hardware monitoring IC

Memory
- 128-bit dual channel memory bus
- Supports 32 DIMM slots (8 DIMM per CPU)/Up to 128GB memory capacity
- Registered ECC DDR2 400/533/667 SDRAM

Disk Controller
- Integrated single-channel ATA 133/100/66: nForce4 Professional 2200
- On-board LSI 1068 PCI-X SAS controller
- supports integrated mirroring/stripping and ZCR function

Drive Bays
- Supports slim CD-ROM(or DVD-Combo) and slim FDD
- Supports six hot-swap SAS HDDs

Graphics
- XGI Volari Z9 VGA chip, 16MB memory size

Network Interface
- Dual Broadcom 5721 PCI-Express X1 Gigabit controllers - support PXE function

Rear Input/Output
- One VGA port, One serial port, One PS/2 connectors, Two RJ45 Gigabit ports, Two USB2.0 connectors, ID LED, Two Dip switches, One 10/100 port dedicated for KVM-over-IP, One IEEE 1394a(FireWire) port, One SFF8470 external SAS connector

Front Panel
- LED: Power, LAN1, LAN2, System Fail, System ID Switch: Reset, Power, System ID Two USB 2.0 connectors

PCI Expansion Slots
- Two full length PCI-Express x16 slots , One half length PCI-Express x4 slot
- Two half length, One full length PCI-X 64-bit 133/100/66 MHz slots

Power Supply
- 100~240VAC, 14.0~7.0A 50/60Hz, auto-sensing, 1000W(2+1) hot-swap redundant P/S with PFC

Cooling
- Hot-plug two center Fans & two rear Fans - Supports variable speed control

Dimension (HxWxD)
- 3U Rackmount, 131 x 430.0 x 698 mm (5.2 x 16.9 x 27.5 inch)

Environment
- Operating: 10 to 35 , Storage: 70 max

Remote Server Mgmt 'ServerDome'
- Integrated server management (IPMI 2.0 on-board)
- ServerDome (Optional)
- In-band and Out-of-band remote management
- Power On/Off and reset function
- Platform Monitoring: Fan fail, Over-temperature and Voltage
- E-mail failure notification
- Automatic System Discovery
- Cabinet Layout Management
- Logical Group Management
- Basis on User Account and Privilege Level
- KVM-over-IP (Optional)